

Amendments to the Claims

The listing of claims replaces all prior versions, and listings, of claims in the application:

Listing of claims

Claim 1: (currently amended) The computer-readable data signal of claim 28 wherein said at least one frame includes

~~A system for creating and transmitting a signal from a plurality of bytes through a communication medium to a receiving device, said system comprising:~~

~~means for parsing said plurality of bytes into at least one frame, said at least one frame having contextually relevant content[[;]],~~

~~means for providing an integrity element for said at least one frame;~~

~~means for placing said integrity element around said at least one frame such that said integrity element encapsulates said at least one frame and can be used to determine if said at least one frame arrived at said receiving device substantially intact, said at least one frame and said integrity element together forming said signal;~~

~~means for transmitting said computer-readable data signal is transmitted using a unidirectional protocol to said receiving device, said receiving device having a current context, [[;-and]]~~

~~means for comparing said current context to said contextually relevant content;~~

~~wherein said receiving device is capable of for accepting or ignoring said at least one frame based on said contextually-relevant content and said current context means for comparing.~~

Claim 2: (cancelled)

Claim 3: (currently amended) The computer-readable data signal system of claim [[1]] 28 further comprising wherein said signal comprises:

at least one eXtensible markup language (XML) element.

Claim 4: (currently amended) The computer-readable data signal system of claim ~~[[1]]~~ 28 wherein said computer-readable data signal is transmitted as a diffuse infrared signal.

Claim 5: (currently amended) ~~A system~~ The computer-readable data signal of claim 28 wherein
said for receiving and utilizing a data signal having a plurality of bytes comprising:

~~means for detecting a at least one frame and [[an]] said integrity element are composed of~~
~~a from said plurality of bytes, said frame containing contextually relevant information; said~~
~~integrity element containing~~ containing at least one parsable data structure~~[[;]]~~

~~means for separating said frame and said integrity element to obtain a separated integrity~~
~~element;~~

~~means for determining contents of said separated integrity element; and~~

~~means for utilizing said contents for testing the validity of said frame; and~~

~~means for ignoring said frame based on said contextually relevant information.~~

Claim 6: (cancelled)

Claim 7: (currently amended) The computer-readable data signal of claim 30 system of claim 6
wherein said ~~means for testing validity~~ validating comprises:

~~means for computing said second a received~~ checksum value based on said seed value,
said operator, said frame size value, and said at least one frame~~[[; and]]~~

~~means for validating said frame if said checksum value matches said received checksum~~
~~value.~~

Claim 8: (cancelled)

Claim 9: (currently amended) The computer-readable data signal system of claim ~~[[6]]~~ 30
wherein said operator identifies a mathematical operator.

Claim 10: (cancelled)

Claim 11: (currently amended) The computer-readable data signal system of claim [[5]] 28 wherein said computer-readable data signal is created by modulating an electric light.

Claim 12: (currently amended) The computer-readable data signal of claim 28 wherein said receiving device is a handheld device ~~A method for creating and transmitting a data signal to a handheld device comprising the steps of:~~

~~parsing a plurality of bytes into at least one frame, the at least one frame containing contextually relevant content;~~
~~determining a checksum value over the at least one frame;~~
~~providing an integrity element;~~
~~embedding the checksum value into the integrity element;~~
~~encapsulating the at least one frame within the integrity element containing the checksum value to produce a data signal;~~
~~providing the data signal to a transmitter for transmission to a handheld device through a communication medium, the handheld device having a current context[[,]]~~
~~comparing the current context with the contextually relevant content; and~~
~~ignoring the at least one frame based on said step of comparing.~~

Claim 13: (cancelled)

Claim 14: (currently amended) The computer-readable data signal method of claim 12 ~~further comprising the step of: providing~~ wherein the computer-readable data signal is transmitted to a diffuse infrared transmitter for transmission to the handheld device.

Claim 15: (cancelled)

Claim 16: (currently amended) The computer-readable data signal of claim 28 wherein said ~~A method for validating an incoming data stream comprising the steps of:~~

~~receiving the incoming data stream having a plurality of bytes organized into at least one frame, the incoming data stream being associated with an integrity element, the integrity element including a seed value, an operator, a frame size, and a first checksum value;~~

~~computing a second checksum value from the plurality of bytes within the at least one frame, the second checksum value being based on the seed value, the operator, the frame size, and the at least one frame; and~~

~~passing the at least one frame is passed to a receiving module if [[the]] said first checksum value matches [[the]] said second checksum value.~~

Claim 17: (cancelled)

Claim 18: (currently amended) The computer-readable data signal method of claim [[16]] 28 wherein said further including the step of:

~~discarding the at least one frame is discarded if [[the]] said first checksum value does not match [[the]] said second checksum value.~~

Claim 19: (cancelled)

Claim 20: (currently amended) The computer-readable data signal of claim 28 wherein said at least one frame includes A method for creating a data signal at a source device having a transmitter associated therewith, said method comprising the steps of:

~~receiving service data from at least one service provider, said [[:]]~~

~~filtering the service data being filtered to create contextually relevant information, said [[:]]~~

~~formatting the contextually relevant information being formatted according to a pre-selected data structure language, said [[:]]~~

~~grouping the formatted contextually relevant information being grouped into said at least one frame, said [[:]]~~

~~determining a checksum value based on the at least one frame, the checksum value uniquely identifying the at least one frame;~~

~~providing an integrity element for the at least one frame;~~
~~embedding the checksum value into the integrity element;~~
~~encapsulating the frame with the integrity element including the checksum value to form the data signal;~~
~~providing the data signal to the transmitter for transmission to a receiving device through a communication medium; and~~
parsing the at least one frame being parsed at said receiving device using ~~[[the]]~~ said pre-selected data structure language to retrieve ~~[[the]]~~ said contextually relevant information.

Claim 21: (cancelled)

Claim 22: (cancelled)

Claim 23: (cancelled)

Claim 24: (cancelled)

Claim 25: (currently amended) The computer-readable data signal of claim 5 wherein said
~~A method for receiving and utilizing a data signal having a plurality of bytes, said method comprising the steps of:~~

~~detecting an integrity element is detected by said receiving device, said integrity element encapsulating said [[the]] plurality of bytes, the plurality of bytes having been organized into a frame, the frame containing contextually relevant information; and~~

~~determining validity of the frame based on the integrity element and the frame, the integrity element including a seed value, an operator, a first checksum value, and a frame size.~~

Claim 26: (cancelled)

Claim 27: (cancelled)

Claim 28: (currently amended) A computer-readable data signal for modifying the operation of a receiving device, said data signal comprising:

at least one frame, ~~capable of~~ for modifying the operation of the receiving device when the receiving device receives and processes said at least one frame; and

an integrity element associated with said at least one frame, said integrity element containing a first checksum value determined from said at least one frame, said first checksum for validating the contents of said at least one frame, said validating being successful if a second checksum value computed over said at least one frame at said receiving device matches said first checksum value.

Claim 29: (previously presented) A computer-readable data signal for modifying the operation of a receiving device, said data signal comprising:

a frame containing at least a subset of a plurality of bytes, the contents of said frame for modifying said operation of said receiving device upon receipt and processing by said receiving device; and

an integrity element containing a first checksum value determined from said at least a subset of said plurality of bytes, said first checksum for validating the contents of said frame, said validating being successful if a second checksum value computed over said frame at said receiving device matches said first checksum value,

wherein said integrity element is an eXtensible markup language (XML) element encapsulating said frame.

Claim 30: (previously presented) The computer-readable data signal of claim 28 wherein said integrity element further comprises:

a frame size value, said frame size value corresponding to the number of bytes in said at least one frame that were used in computing said first checksum value;

a seed value, said seed value being used in determining said first checksum value; and

an operator used in conjunction with said seed value to compute said first checksum value.

Claim 31: (previously presented) The computer-readable data signal of claim 28 wherein said contents of said at least one frame include at least one eXtensible markup language (XML) element.

Claim 32: (previously presented) The computer-readable data signal of claim 29 wherein said integrity element further comprises:

a frame size value, said frame size value corresponding to the number of bytes in said frame that were used in computing said first checksum value;

a seed value, said seed value being used in determining said first checksum value; and

an operator used in conjunction with said seed value to compute said first checksum value.

Claim 33: (previously presented) The computer-readable data signal of claim 29 wherein said contents of said frame include an eXtensible markup language (XML) element.

Claim 34: (previously presented) The computer-readable data signal of claim 29 wherein said contents of said frame include at least one parsable data structure.

Claim 35: (cancelled)

Claim 36: (cancelled)

Claim 37: (currently amended) The computer-readable data signal of claim ~~[[35]]~~ 28 wherein said contents of said at least one frame include at least one parsable data structure.